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Technology Center 2600

APPLICANT(S):

Andrew L. Norrell, et al.

SERIAL NO.:

10/072,833

FILED:

February 6, 2002

TITLE:

Loop Extender with Selectable Line Termination and Equalization

EXAMINER:

Unknown

GROUP ART UNIT:

2631

ATTY.DKT.NO.:

PA1599US

COMMISSIONER FOR PATENTS WASHINGTON, D.C. 20231

<u>List of Co-Pending Patent Applications That May Be Directed</u> <u>Towards Similar Subject Matter</u>

Examiner's Initials	s Serial First-Named Number Inventor		Title	Filing Date	
129	09/569,470	Brian L. Hinman	DSL Repeater	05/12/2000	
RP	09/610,788	Brian L. Hinman	DSP-Based Repeater for DSL Signals	07/06/2000	
He	09/670,475	Brian L. Hinman	Load Coil and DSL Repeater Including Same	09/26/2000	
R	10/071,091	Andrew L. Norrell	Loop Extender with Communications, Control, and Diagnostics	02/06/2002	
129	10/071,980	Andrew L. Norrell	Line Powered Loop Extender with Communications, Control, and Diagnostics	02/06/2002	
Examiner's Signature:		Ram !	Singly .	Date 1 0 6	

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CLENT & VI		STATEMENT BY APPLICANT (use as many sheets as necessary)		s necessary)	Examiner Name	Unknown		
	Sheet	1	of	1	Attorney Docket Number	PA1599US	205.03	2002

			U.S. PATENT DOCU	MENTS	Continuing Con	er 260n ·
Examiner Initials	Cite No.1	U.S. Patent Document Number Kind Code ² (# known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Flayres Appear	
Yo		6,208,670	Milliron, et al.	03-27-2001		ı
22		6,236,664	Ептеудега	05-22-2001		ı
PR		6,385,234	Ashley	05-07-2002		;
Pe'		6,385,252	Gradi, et al.	05-07-2002		
RP		6,385,253	Swisher	05-07-2002		
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				FORE	IGN PATENT DOCUMEN	rs		
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nitials*	No.1	Office ³	Number ⁴	Kind Code ⁵ (if known)	Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	140
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ² Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁴ Applicant is to place a check mark here if English language Translation is attached.

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Libstitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 4

Complete If Known						
Application Number	10/072,833					
Filing Date	February 6, 2002					
First Named Inventor	Andrew L. Norrell					
Art Unit	2646					
Examiner Name	Singh, Ramnandan P.					
Attorney Docket Number	6491P039					

			U.S. PATE	NT DOCUMENTS	
Examiner Initiats*	Cite No.'	Document Number Number - Kind Code ² (il known)	Publication Date Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
KS.		US-5,422,929 A	06-06-1995	Hurst et al.	
_[US-6,658,049	12-02-2003	McGhee et al.	
		US-6,301,337	10-09-2001	Scholtz et al.	
		US-6,279,769	08-28-2001	Bella, Gregory L.	
		US-4,139,745	02-13-2079	Ashdown et al.	
		US-6,477,178	11-05-2002	Wakim et al.	
		US-6,032,019	02-29-2000	Chen et al.	
		US-5,133,081	07-21-1992	Mayo, Scott T.	
		US-2002/0105964	08-08-2002	Sommer et al.	•
		US-6,226,331 B1	05-01-2001	Gambuzza, Michael J.	
		US-5,825,819 A	10-20-1998	Cogburn, Onis	
		US-6,681,012 B1	01-20-2004	Gorcea et al.	
		US-6,751,315 B1	06-15-2004	Liu et al.	
		US-5,678,198	10-14-1997	Lemson, Paul H.	
		US-5,765,097	06-09-1998	Dail, James E.	
		US-6,532,279	03-11-2003	Goodman, David D.	
		US-6,466,656 B1	10-15-2002	Evans et al.	· _
1		US-2002/0106013 A1	08-08-2002	Norrell et al.	
X.		US-6,947,529	09-20-2005	Norrell et al.	
RA		US-2002/0106012 A1	08-08-2002	Norrell et al.	

			EIGN PATENT	DOCUMENTS	
Examiner	Cite	Foreign Patent Oocument	B. 45		Pages, Columns, Lines,
Initials*	No.'	Country Code* - Number* - Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear
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Based on PTO/SB/08A (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wtr) 08/11/2003.

Substitute for	form 1449A/PTO			Complete if Known		
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	February 6, 2002	
				First Named Inventor	Andrew L. Norrell	
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				Examiner Name	Singh, Ramnandan P	
Sheet	2	of	4	Attorney Docket Number	6491P039	

			U.S. PATE	NT DOCUMENTS	
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Ŷ9		US-2002/0110221 A1	08-15-2002	Norrell et al.	
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Substitute fo	or form 1449A/PTO			Co	Complete if Known		
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STATEMENT BY APPLICANT				First Named Inventor	Andrew L. Norrell		
				Art Unit	2646		
				Examiner Name	Singh, Ramnandan P.		
Sheet	3	of	4	Attorney Docket Number	6491P039		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.'	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the Item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-Issue number(s), publisher, city and/or country where published.	T*
		Nilsson, J.W., and Riedel, S.A., "ELECTRIC CIRCUITS", 1996, pages 723-777, Fifth Edition, Addison-Wesley, Reading, MA.	
		Starr, Thomas, et al., "Understanding Digital Subscriber Line Technology, "Prentice Hall PTR, Upper Saddle River NJ,07458, 1999, ISBN 0137805454.	•
		Chen, Walter Y., "DSL Simulation Techniques and Standards Development for Digital Subscriber Line Systems", Macmillan Technical Publishing, Indianapolis, Indiana, ISBN 1578700175.	
	,	"Smart Coil TM - "The line conditioner for the digital age! Smart Coils condition copper pairs for deployment of both ADSL (data) and toll-quality voice services on the same line", Charles a registered Trademark of Charles Industries, LTD., 2 pages.	
	20	"Testing Inter-Winding Capacitance", Rhombus Industries, Inc., Huntington Beach, California, 1997, I page.	
		"Transformer General Parameters for Telecom Magnetic Component", Delta Products Corporation, Fremont, California, 1 page.	
		"Design Idea DI-61 TinySwitch®-II 3 W Charger: <200 mW No-Load Consumption", Power® Integrations, www.powerint.com, March 2004, 2 pages.	·

Examiner	Date	
Signature	Considered	

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

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					Art Unit	2646	
			_		Examiner Name	Singh, Ramnandan P.	
Sheet	4 .	. (of 4	4	Attorney Docket Number	6491P039	

	NON PATENT LITERATURE DOCUMENTS							
Examiner Initials*	Cite No.'	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country was re published.	T²					
		"Lundahl Transformers, Tube amplifier fransformers, OPTs, mains, and interstage transformers", http://www.lundahl.se/jubes.html, April 13, 2004, pages 1-7.						
		"TechEncyclopedia" (TechWeb, http://www.teshweb.com/encyclopedia/defineterm?term=dsl&x=20&y=5, April 16, 2004, pages 1-4.						
	2	Grossner, Nathan R., "The Wide-Band Transformer: Synthesis", and "The Pulse Transformer: Analysis", Transformers for Electronic Circuits, Copyright © 1967, by McGraw-Hill, pages 225-252.						
	2							
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Signature	Considered	

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw tine through citation if not in conformance and not considered. Include copy of this form with next communication.

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